Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-30-05** **Date: 02-06-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.
Agency	:	Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.
Customer's Reference	:	BBMP/EE/BTP/WO/02/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-18
Sample ID No	:	2018-05-30-05 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.2	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(M)

Assistant Executive Engineer

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-30-05** **Date: 28-06-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.
Agency	:	Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.
Customer's Reference	:	BBMP/EE/BTP/WO/02/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-18
Sample ID No	:	2018-05-30-05 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm2	Not less than 37 N/mm2
2	28 Days	57.0N/mm^2	Not less than 53 N/mm^2

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AE(N-D)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-01-08** **Date: 04-06-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.
Agency	:	Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.
Customer's Reference	:	BBMP/EE/BTP/WO/02/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-06-18
Sample ID No	:	2018-06-01-08 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1178	1178	7.9	92.1	90-100
3	20 mm	5617	6795	45.3	54.7	30-70
4	10 mm	5211	12006	80.0	20.0	10-35
5	4.75 mm	2580	14586	97.2	2.8	0-5
6	Pan	414	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-06-01-08** **Date: 04-06-18**

Sample ID No : 2018-06-01-08 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.19	_

Note:
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FOR CIVIL Pro.

AE(Civil) ND

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-01-08** **Date: 04-06-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.

Agency : Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/02/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-06-18

Sample ID No : 2018-06-01-08 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-06-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	15	15	1.5	98.5	90-100	90-100	90-100	95-100
3	2.36 mm	180	195	19.5	80.5	60-95	75-100	85-100	95-100
4	1.18 mm	351	546	54.6	45.4	30-70	55-90	75-100	90-100
5	600 micron	86	632	63.2	36.8	15-34	35-59	60-79	80-100
6	300 micron	163	795	79.5	20.5	5-20	8-30	12-40	15-50
7	150 micron	126	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

Approved
AE (HQ)

CIVIL PRO Sig..... Date..... BANGALORE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-06-01-08** **Date: 04-06-18**

Sample ID No : 2018-06-01-08 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.12	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	7.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-25-10** **Date: 29/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.

Agency : Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/02/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-18

Sample ID No : 2018-06-25-10 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	22/06/2018	29/06/2018	151.90 X 150.54 X 150.18	22867	8.443	419.9	18.4	18.6
2	RMC	M20	22/06/2018	29/06/2018	150.64 X 151.26 X 150.76	22786	8.055	417.4	18.3	
3	RMC	M20	22/06/2018	29/06/2018	149.15 X 150.98 X 149.19	22518	8.300	427.5	19.0	

Note:
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Assistant Executive Engineer, Koulagallu Sub Division, BBMP

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

DE(Ltd)

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-25-10** **Date: 20/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.

Agency : Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/02/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-06-18

Sample ID No : 2018-06-25-10 /02

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	22/06/2018	20/07/2018	150.22 X 150.34 X 150.25	22584	8.281	478.8	21.2	21.2
2	RMC	M20	22/06/2018	20/07/2018	150.32 X 150.34 X 150.45	22599	8.291	485.9	21.5	
3	RMC	M20	22/06/2018	20/07/2018	150.32 X 150.24 X 150.25	22584	8.301	472.0	20.9	

Note:
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AE (Ward)

Assistant Executive Engineer

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-26-09** **Date: 30/06/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.

Agency : Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/02/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-09 /01

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	23/06/2018	30/06/2018	151.90 X 150.54 X 150.18	22867	8.443	419.9	18.4	18.6
2	RMC	M20	23/06/2018	30/06/2018	150.64 X 151.26 X 150.76	22786	8.055	417.4	18.3	
3	RMC	M20	23/06/2018	30/06/2018	149.15 X 150.98 X 149.19	22518	8.300	427.5	19.0	

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AE(MEI)

Executive Engineer

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-26-09** **Date: 21/07/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.

Agency : Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.

Customer's Reference : BBMP/EE/BTP/WO/02/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-18

Sample ID No : 2018-06-26-09 /02

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	23/06/2018	21/07/2018	150.22 X 150.34 X 150.25	22584	8.281	478.8	21.2	21.2
2	RMC	M20	23/06/2018	21/07/2018	150.32 X 150.34 X 150.45	22599	8.291	485.9	21.5	
3	RMC	M20	23/06/2018	21/07/2018	150.32 X 150.24 X 150.25	22584	8.301	472.0	20.9	

Note:
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Abhilash.N.D
AE(W2)

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-06-09-05** **Date: 11-06-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.
Agency	:	Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.
Customer Reference	:	BBMP/EE/BTP/WO/02/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-18
Sample ID No	:	2018-06-28-05/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	09-06-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	303	303	2.8	97.2	95-100
22.4	2273	2576	23.4	76.6	60-80
11.2	2216	4792	43.6	56.4	40-60
4.75	2283	7075	64.3	35.7	25-40
2.36	1678	8753	79.6	20.4	15-30
0.6	656	9409	85.5	14.5	8-22
0.075	1365	10774	97.9	2.1	0-5

Note:-

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

B.L.N.D
AE(NW)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P,
Bangalore.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-06-09-05** **Date: 11-06-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.
Agency	:	Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.
Customer Reference	:	BBMP/EE/BTP/WO/02/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-18
Sample ID No	:	2018-06-28-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-06-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	306.2	306.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.9	231.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.1	24.2
6	Aggregate impact value (Mean of two tests)	Pecentage	24.1	

Note:-
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(NL)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-06-09-05** **Date: 11-06-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains in behind Anjaneya temple in ward No.7, Byatarayanapura.
Agency	:	Sri. B.M.Muniraju, #432/A, Unnati Nilaya, 1st Cross, Shivashankara Block, Hebbala, Bangalore-560024.
Customer Reference	:	BBMP/EE/BTP/WO/02/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-06-18
Sample ID No	:	2018-06-28-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-06-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.6%	
Combined Flakiness and Elongation Index for WMM	22.4%	

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

A Lplls.N.D
AE(Ret)

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Rodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

End of Report

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